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| FORM PTO-1449<br>(REV. 7-80)  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO.<br>500441.04             | APPLICATION NO.<br>Not yet assigned |
| <b>INFORMATION DISCLOSURE STATEMENT</b><br><i>(Use several sheets if necessary)</i> |  | APPLICANT(S)<br>Judson R. Sharples et al. |                                     |
|   |  | FILING DATE<br>Concurrently herewith      | GROUP ART UNIT<br>Not yet assigned  |

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE     | NAME               | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|----|-----------------|----------|--------------------|-------|----------|-------------------------------|
| AD                   | AA | 3,638,366       | 02/01/72 | Gamache            | 51    | 326      |                               |
|                      | AB | 3,841,031       | 10/15/74 | Walsh              | 51    | 283      |                               |
|                      | AC | 3,957,553       | 05/18/76 | Smith              | 156   | 22       |                               |
|                      | AD | 4,638,553       | 01/27/87 | Nilarp             | 29    | 580      |                               |
|                      | AE | 4,879,258       | 11/07/89 | Fisher             | 437   | 225      |                               |
|                      | AF | 4,903,440       | 02/27/90 | Larson et al.      | 51    | 298      |                               |
|                      | AG | 4,910,155       | 03/20/90 | Cote et al.        | 437   | 8        |                               |
|                      | AH | 4,927,432       | 05/22/90 | Budinger et al.    | 51    | 298      |                               |
|                      | AI | 4,954,141       | 09/04/90 | Takiyama et al.    | 51    | 296      |                               |
|                      | AJ | 4,954,142       | 09/04/90 | Carr et al.        | 51    | 309      |                               |
|                      | AK | 4,962,776       | 10/16/90 | Liu et al.         | 134   | 11       |                               |
|                      | AL | 4,973,563       | 11/27/90 | Prigge et al.      | 437   | 225      |                               |
|                      | AM | 4,992,135       | 02/12/91 | Doan               | 156   | 636      |                               |
|                      | AN | 5,174,816       | 12/29/92 | Aoyama et al.      | 106   | 203      |                               |
|                      | AO | 5,209,816       | 05/11/93 | Yu et al.          | 156   | 636      |                               |
|                      | AP | 5,262,354       | 11/16/93 | Cote et al.        | 437   | 195      |                               |
|                      | AQ | 5,300,155       | 04/05/94 | Sandhu et al.      | 148   | 33       |                               |
|                      | AR | 5,318,927       | 06/07/94 | Sandhu et al.      | 437   | 225      |                               |
|                      | AS | 5,335,453       | 08/09/94 | Baldy et al.       | 51    | 67       |                               |
|                      | AT | 5,340,370       | 08/23/94 | Cadien et al.      | 51    | 308      |                               |
|                      | AU | 5,354,490       | 10/11/94 | Yu et al.          | 252   | 79.1     |                               |
|                      | AV | 5,389,194       | 02/14/95 | Rostoker et al.    | 156   | 636      |                               |
|                      | AW | 5,391,258       | 02/21/95 | Brancaleoni et al. | 156   | 636      |                               |
| AD                   | AX | 5,397,397       | 03/14/95 | Awad               | 134   | 1        |                               |

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| EXAMINER<br>Anthony Qini  | DATE CONSIDERED<br>10/7/04 |
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|----------------------|----|-----------------|----------|--------------------|-------|----------|-------------------------------|
| AD                   | BA | 5,543,312       | 09/26/95 | Haas et al.        | 428   | 143      |                               |
|                      | BB | 5,456,627       | 10/10/95 | Jackson et al.     | 451   | 11       |                               |
|                      | BC | 5,482,497       | 01/09/96 | Gonnella et al.    | 451   | 57       |                               |
|                      | BD | 5,492,858       | 02/20/96 | Bose et al.        | 437   | 67       |                               |
|                      | BE | 5,551,986       | 09/03/96 | Jain               | 134   | 6        |                               |
|                      | BF | 5,575,885       | 11/19/96 | Hirabayashi et al. | 156   | 626.1    |                               |
|                      | BG | 5,578,362       | 11/26/96 | Reinhardt et al.   | 428   | 147      |                               |
|                      | BH | 5,578,523       | 11/26/96 | Fiordalice et al.  | 437   | 190      |                               |
|                      | BI | 5,624,303       | 04/29/97 | Robinson           | 451   | 285      |                               |
|                      | BJ | 5,643,044       | 07/01/97 | Lund               | 451   | 5        |                               |
|                      | BK | 5,645,682       | 07/08/97 | Skrovan            | 451   | 56x      |                               |
|                      | BL | 5,679,169       | 10/21/97 | Gonzales et al.    | 134   | 1.3      |                               |
|                      | BM | 5,692,950       | 12/02/97 | Rutherford et al.  | 451   | 552      |                               |
|                      | BN | 5,707,492       | 01/13/98 | Stager et al.      | 156   | 645.1    |                               |
|                      | BO | 5,759,427       | 06/02/98 | Cibulsky et al.    | 216   | 91       |                               |
|                      | BP | 5,782,675       | 07/21/98 | Southwick          | 451   | 56       |                               |
|                      | BQ | 5,894,852       | 04/20/99 | Gonzales et al.    | 134   | 1.3      |                               |
|                      | BR | 5,879,226       | 03/09/99 | Robinson           | 451   | 287      |                               |
|                      | BS | 5,938,505       | 08/17/99 | Morrison et al.    | 451   | 36       |                               |
|                      | BT | 5,972,792       | 10/26/99 | Hudson             | 438   | 691      |                               |
|                      | BU | 6,028,006       | 02/22/00 | Bawa et al.        | 438   | 692      |                               |
|                      | BV | 6,054,015       | 04/25/00 | Brunelli et al.    | 156   | 345      |                               |
|                      | BW | 6,060,396       | 05/09/00 | Fukami et al.      | 438   | 693      |                               |

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|----------------------|----|-----------------|----------|-----------------|-------|----------|-------------------------------|
| AD                   | CA | 6,220,934       | 04/24/01 | Sharples et al. | 451   | 36       |                               |
| AD                   | CB | 6,368,194       | 04/09/02 | Sharples et al. | 451   | 67       |                               |
|                      | CC |                 |          |                 |       |          |                               |
|                      | CD |                 |          |                 |       |          |                               |
|                      | CE |                 |          |                 |       |          |                               |
|                      | CF |                 |          |                 |       |          |                               |
|                      | CG |                 |          |                 |       |          |                               |
|                      | CH |                 |          |                 |       |          |                               |
|                      | CI |                 |          |                 |       |          |                               |
|                      | CJ |                 |          |                 |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|    |    | DOCUMENT NUMBER | DATE     | COUNTRY                  | CLASS | SUBCLASS | TRANSLATION |    |
|----|----|-----------------|----------|--------------------------|-------|----------|-------------|----|
|    |    |                 |          |                          |       |          | YES         | NO |
| AD | CK | EP0685299A1     | 12/06/95 | EP                       | B24B  | 37/04    | X           |    |
|    | CL | JP408064562A    | 03/08/96 | Japan                    | H01L  | 21/304   | X           |    |
|    | CM | EP0708160A2     | 04/24/96 | EP                       | C09G  | 1/02     | X           |    |
|    | CN | JP08112740A     | 05/07/96 | Japan (English Abstract) | B24B  | 1/00     |             | X  |
| AD | CO | WO96/16436      | 05/30/96 | PCT                      | H01L  | 21/3105  | X           |    |

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

|    |    |   |
|----|----|---|
| AD | CP | Uematsu et al., "Efficient Mechanochemical Polishing for Silicon Nitride Ceramics", <i>NIST Spec. Publ.</i> 847, (Machining of Advanced Materials): 409-413, 1993 |
|    | CQ |   |

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